
Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)

217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2009; month=7; day=21; hr=7; min=7; sec=28; ms=940;]

Validated By CRFValidator v 1.0.3

Application No: 10551705 Version No: 1.0

Input Set:

Output Set:

Started: 2009-07-08 16:57:29.706

Finished: 2009-07-08 16:57:31.894

Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 188 ms

Total Warnings: 37

Total Errors: 0

No. of SeqIDs Defined: 37

Actual SeqID Count: 37

Error code		Error Description									
M	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(1)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(2)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(3)
M	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(4)
M	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(5)
M	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(6)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(7)
M	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(8)
M	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(9)
M	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(10)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(11)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(12)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(13)
M	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(14)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(15)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(16)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(17)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(18)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(19)
W	213	Artificial	or	Unknown	found	in	<213>	in	SEQ	ID	(20)

Input Set:

Output Set:

Started: 2009-07-08 16:57:29.706

Finished: 2009-07-08 16:57:31.894

Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 188 ms

Total Warnings: 37

Total Errors: 0

No. of SeqIDs Defined: 37

Actual SeqID Count: 37

Error code Error Description

This error has occured more than 20 times, will not be displayed

SEQUENCE LISTING

```
<110> MOSER, MICHAEL JAMES
     VAN HOUT, CRISTOPHER V.
     LARSEN, CHRISTINE A.
     MARSHALL, DAVID J.
      PRUDENT, JAMES R.
<120> POLYMERASE INHIBITOR AND METHOD OF USING SAME
<130> 023542-0145
<140> 10551705
<141> 2009-07-08
<150> PCT/US2004/010029
<151> 2004-04-01
<150> 60/459,672
<151> 2003-04-01
<160> 37
<170> PatentIn version 3.5
<210> 1
<211> 25
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic primer
<220>
<221> modified_base
<222> (2)..(2)
<223> iso-c
<400> 1
tngatagcaa caattcatct acaga
                                                                         25
<210> 2
<211> 24
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic primer
<400> 2
atgggtagtg aatgatcttg tttc
                                                                         24
```

```
<211> 100
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic polynucleotide
<400> 3
tcagatagca acaattcatc tacagaccca attagcagtg gagaaacaag atcattcact
                                                                         60
acccatttct taacttatcc caagatagga cttctgtaca
                                                                        100
<210> 4
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 4
gctgtctggt ccgttattat ac
                                                                         22
<210> 5
<211> 10
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<220>
<221> modified_base
<222> (10)..(10)
<223> dideoxy-c
<400> 5
gtataataac
                                                                         10
<210> 6
<211> 14
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<220>
<221> modified_base
<222> (14)..(14)
<223> dideoxy-c
```

```
<400> 6
                                                                         14
gtataataac ggac
<210> 7
<211> 15
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<220>
<221> modified_base
<222> (15)..(15)
<223> dideoxy-c
<400> 7
gtataataac ggacc
                                                                         15
<210> 8
<211> 51
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<220>
<221> modified_base
<222> (51)..(51)
<223> dideoxy-c
<400> 8
gctgtctggt ccgaaacgat cgggattttt ttttaaaatc ccgatcgttt c
                                                                         51
<210> 9
<211> 51
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<220>
<221> modified_base
<222> (1)..(1)
<223> 2'-O-methylguanine
<220>
<221> modified_base
<222> (2)..(2)
```

```
<223> 2'-O-methylcytosine
<220>
<221> modified_base
<222> (3)..(3)
<223> 2'-O-methylthymine
<220>
<221> modified_base
<222> (4)..(4)
<223> 2'-O-methylguanine
<220>
<221> modified_base
<222> (5)..(5)
<223> 2'-O-methylthymine
<220>
<221> modified_base
<222> (6)..(6)
<223> 2'-O-methylcytosine
<220>
<221> modified_base
<222> (7)..(7)
<223> 2'-O-methylthymine
<220>
<221> modified_base
<222> (8)..(9)
<223> 2'-O-methylguanine
<220>
<221> modified_base
<222> (10)..(10)
<223> 2'-O-methylthymine
<220>
<221> modified_base
<222> (11)..(12)
<223> 2'-O-methylcytosine
<220>
<221> modified_base
<222> (13)..(13)
<223> 2'-O-methylguanine
<220>
<221> modified_base
<222> (14)..(16)
<223> 2'-O-methyladenine
<220>
<221> modified_base
<222> (17)..(17)
<223> 2'-O-methylcytosine
```

```
<220>
<221> modified_base
<222> (18)..(18)
<223> 2'-O-methylguanine
<220>
<221> modified_base
<222> (19)..(19)
<223> 2'-O-methyladenine
<220>
<221> modified_base
<222> (20)..(20)
<223> 2'-O-methylthymine
<220>
<221> modified_base
<222> (21)..(21)
<223> 2'-O-methylcytosine
<220>
<221> modified_base
<222> (22)..(24)
<223> 2'-O-methylguanine
<220>
<221> modified_base
<222> (25)..(25)
<223> 2'-O-methyladenine
<220>
<221> modified_base
<222> (26)..(30)
<223> 2'-O-methylthymine
<220>
<221> modified_base
<222> (51)..(51)
<223> dideoxy-c
<400> 9
gctgtctggt ccgaaacgat cgggattttt ttttaaaatc ccgatcgttt c
                                                                          51
<210> 10
<211> 38
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<220>
<221> modified_base
<222> (2)..(2)
<223> iso-c
```

```
<400> 10
tnagagtctg gtgccgactc gacgttttcg tcgagtcg
                                                                         38
<210> 11
<211> 26
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<220>
<221> modified_base
<222> (26)..(26)
<223> dideoxy-c
<400> 11
gctgtctggt ccgtcagttt tctgac
                                                                          26
<210> 12
<211> 32
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<220>
<221> modified_base
<222> (32)..(32)
<223> dideoxy-c
<400> 12
gctgtctggt ccgcgtcacg ttttcgtgac gc
                                                                          32
<210> 13
<211> 32
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<220>
<221> modified_base
<222> (32)..(32)
<223> dideoxy-c
<400> 13
```

gctgtctggt ccgttattat ttttataata ac

32

```
<210> 14
<211> 32
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<220>
<221> modified_base
<222> (32)..(32)
<223> dideoxy-c
<400> 14
gctgtctggt ccgttattac ttttgtaata ac
                                                                         32
<210> 15
<211> 28
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<220>
<221> modified_base
<222> (28)..(28)
<223> dideoxy-c
<400> 15
gctgtctggt ccgtcatgtt ttcatgac
                                                                         28
<210> 16
<211> 28
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<220>
<221> modified_base
<222> (28)..(28)
<223> dideoxy-c
<400> 16
gctgtctggt ccgtcatatt tttatgac
                                                                         28
```

```
<211> 36
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<220>
<221> modified_base
<222> (36)..(36)
<223> dideoxy-c
<400> 17
gctgtctggt ccgttattat atttttatat aataac
                                                                          36
<210> 18
<211> 36
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<220>
<221> modified_base
<222> (36)..(36)
<223> dideoxy-c
<400> 18
gctgtctggt ccgttattat acttttgtat aataac
<210> 19
<211> 39
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<220>
<221> modified_base
<222> (19)..(19)
<223> iso-c
<220>
<221> modified_base
<222> (20)..(20)
<223> iso-g
<400> 19
cacgacaggc agacaggann gctcacgttt tcgtgagct
                                                                          39
```

```
<210> 20
<211> 34
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<220>
<221> modified_base
<222> (13)..(14)
<223> iso-c
<400> 20
cacacaggag cannagctca cgttttcgtg agct
                                                                         34
<210> 21
<211> 30
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<220>
<221> modified_base
<222> (11)..(12)
<223> iso-c
<400> 21
gctgtctggt nngctcacgt tttcgtgagc
                                                                         30
<210> 22
<211> 32
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<220>
<221> modified_base
<222> (11)..(12)
<223> iso-c
<400> 22
gctgtctggt nncgctcacg ttttcgtgag cg
                                                                         32
<210> 23
```

<211> 34

```
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 23
gctgtctggt cccgctcacg ttttcgtgag cgtt
                                                                         34
<210> 24
<211> 36
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<220>
<221> modified_base
<222> (11)..(12)
<223> iso-c
<400> 24
gctgtctggt nncgactcga cgttttcgtc gagtcg
                                                                         36
<210> 25
<211> 36
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Combined DNA/RNA Molecule: Synthetic
      oligonucleotide
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<220>
<221> modified_base
<222> (34)..(34)
<223> 2'-O-methyluracil
<220>
<221> modified_base
<222> (35)..(35)
<223> 2'-O-methylcytosine
<220>
<221> modified_base
<222> (36)..(36)
<223> dideoxy-c
<400> 25
```

```
<210> 26
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<220>
<223> O-methyl modified
<400> 26
gctgtctggt ccgttattat ac
                                                                         22
<210> 27
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<220>
<221> modified_base
<222> (22)..(22)
<223> dideoxy-c
<400> 27
gctgtctggt ccgttattat ac
                                                                         22
<210> 28
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<400> 28
gctgtctggt ccgttattat ac
                                                                         22
<210> 29
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
```

```
<220>
<221> modified_base
<222> (22)..(22)
<223> dideoxy-c
<400> 29
gctgtctggt ataataacgg ac
                                                                         22
<210> 30
<211> 23
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<220>
<221> modified_base
<222> (23)..(23)
<223> dideoxy-c
<400> 30
gctgtctggt ataataacgg acc
                                                                         23
<210> 31
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<220>
<221> modified_base
<222> (6)..(6)
<223> iso-g
<220>
<221> modified_base
<222> (12)..(12)
<223> iso-c
<220>
<221> modified_base
<222> (17)..(17)
<223> iso-g
<400> 31
                                                                         22
gctgtntggt gngttantat ac
```

```
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<220>
<221> modified_base
<222> (6)..(6)
<223> iso-g
<220>
<221> modified_base
<222> (12)..(12)
<223> iso-c
<220>
<221> modified_base
<222> (17)..(17)
<223> iso-g
<400> 32
                                                                          22
gctgtntggt gngttantat ac
<210> 33
<211> 12
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<220>
<221> modified_base
<222> (6)..(6)
<223> iso-c
<220>
<221> modified_base
<222> (11)..(11)
<223> iso-g
<220>
<221> modified_base
<222> (12)..(12)
<223> dideoxy-c
<400> 33
gtatantaac nc
                                                                          12
```

<210> 34

<211> 14

```
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<220>
<221> modified_base
<222> (6)..(6)
<223> iso-c
<220>
<221> modified_base
<222> (11)..(11)
<223> iso-g
<220>
<221> modified_base
<222> (14)..(14)
<223> dideoxy-c
<400> 34
                                                                         14
gtatantaac ncac
<210> 35
<211> 15
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<220>
<221> modified_base
<222> (6)..(6)
<223> iso-c
<220>
<221> modified_base
<222> (11)..(11)
<223> iso-g
<220>
<221> modified_base
<222> (15)..(15)
<223> dideoxy-c
<400> 35
                                                                         15
gtatantaac ncacc
<210> 36
<211> 22
```

<212> DNA

```
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<220>
<221> modified_base
<222> (6)..(6)
<223> iso-g
<220>
<221> modified_base
<222> (12)..(12)
<223> iso-c
<220>
<221> modified_base
<222> (17)..(17)
<223> iso-g
<400> 36
gctgtntggt angttantat ac
                                                                         22
<210> 37
<211> 14
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic oligonucleotide
<220>
<221> modified_base
<222> (6)..(6)
<223> iso-c
<220>
<221> modified_base
<222> (11)..(11)
<223> iso-g
<220>
<221> modified_base
<222> (14)..(14)
<223> dideoxy-c
<400> 37
```

gtatantaac ntac

14